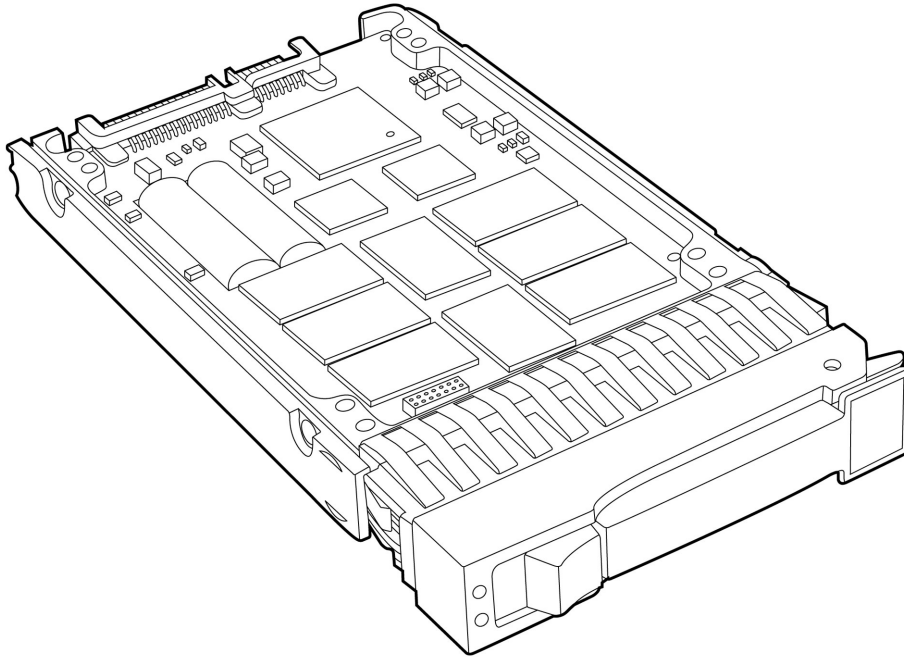


### Overview

HP Solid State Drives (SSDs) deliver exceptional performance and endurance for customers with applications requiring high random read IOPs performance. Leveraging NAND Flash technology, they support HP ProLiant servers and server storage platforms. They are generally available as Small Form Factor (SFF) and Large Form Factor (LFF) hot plug devices, non-hot plug SFF devices, and SFF Quick Release devices. These drives deliver higher performance, lower latency, and more power-efficient solutions when compared with traditional rotating media. Plus they fit seamlessly into the existing HP server infrastructure.



### What's New

- HP 12Gb SAS SSDs - Value Endurance
- HP 12Gb SAS SSDs - High Endurance and Mainstream Endurance

### Models

#### Models

##### HP Solid State Drives (SSD)

##### HP SSD SAS Drives

##### 12G SAS Value Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives

HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive 762261-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive 762263-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

##### 12G SAS Value Endurance Hot Plug LFF (3.5-inch) Enterprise Performance Solid State Drives

HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive 762270-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive 762272-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

##### 12G SAS High Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives

HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive 741159-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 800GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive 741157-B21

**NOTE:** This drive supports G7 servers only.

HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive 741155-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 400GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive 741153-B21

**NOTE:** This drive supports G7 servers only.

HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive 741151-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 200GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive 741148-B21

**NOTE:** This drive supports G7 servers only.

##### 12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives

HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive 741146-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive 741144-B21

**NOTE:** This drive supports G7 servers only.

HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive 741142-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive 741140-B21

**NOTE:** This drive supports G7 servers only.

HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive 741138-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive 741136-B21

**NOTE:** This drive supports G7 servers only.

##### HP SSD SATA Drives

##### 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives

HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive 717965-B21

**NOTE:** This drive supports Gen8 servers and beyond only.

HP 120GB 6G SATA Value Endurance SFF 2.5-in Enterprise Boot 3yr Wty Solid State Drive 728726-B21

**NOTE:** This drive supports G7 servers only.



### Models

HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	734360-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	734366-B21
<b>6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives</b>	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	718171-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	728732-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	734362-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in Enterprise Boot 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	734368-B21
<b>6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives</b>	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	717973-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	728743-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	717971-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	728739-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	739898-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	739888-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	739904-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	739894-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drives supports Gen8 servers and beyond only.	717969-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	728735-B21
<b>6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives</b>	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	718189-B21
HP 800GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	728745-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	739900-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports G7 servers only.	739906-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers and beyond only.	718183-B21

### Models

HP 480GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive	728741-B21
<b>NOTE:</b> This drive supports G7 servers only.	
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739890-B21
<b>NOTE:</b> This drive supports Gen8 servers and beyond only.	
HP 300GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive	739896-B21
<b>NOTE:</b> This drive supports G7 servers only.	
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
<b>NOTE:</b> This drive supports Gen8 servers and beyond only.	
HP 240GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive	728737-B21
<b>NOTE:</b> This drive supports G7 servers only.	
<b>6G SATA ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
<b>NOTE:</b> These drives support Gen8 servers and beyond only.	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691864-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
<b>6G SATA ME Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives</b>	
<b>NOTE:</b> These drives support Gen8 servers and beyond only.	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
<b>6G SATA ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
<b>NOTE:</b> These drives support G6 and G7 servers only.	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730065-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730063-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730061-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730059-B21
<b>HP SSD SAS Drives</b>	
<b>6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690829-B21
<b>NOTE:</b> This drive supports Gen8 servers only.	
HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Warranty Solid State Drive	690823-B21
<b>NOTE:</b> This drive supports G6 and G7 servers only.	
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690827-B21
<b>NOTE:</b> This drive supports Gen8 servers only.	
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream 3yr Warranty Solid State Drive	690821-B21
<b>NOTE:</b> This drive supports G6 and G7 servers only.	
HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690825-B21
<b>NOTE:</b> This drive supports Gen8 servers only.	
HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Warranty Solid State Drive	690819-B21
<b>NOTE:</b> This drive supports G6 and G7 servers only.	
<b>6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives</b>	
HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653082-B21
<b>NOTE:</b> This drive supports Gen8 servers only.	

### Models

HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive <b>NOTE:</b> This drive supports G6 and G7 servers only.	632494-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive <b>NOTE:</b> This drive supports Gen8 servers only.	653078-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive <b>NOTE:</b> This drive supports G6 and G7 servers only.	632492-B21
<b>HP SSD SATA Quick Release Drives</b>	
<b>6G SATA Value Endurance Quick Release SFF (2.5-inch) Enterprise Boot Solid State Drives</b>	
<b>NOTE:</b> These drives are supported by the SL230s Gen8 and SL250s Gen8 only.	
HP 120GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Boot 3yr Wty Solid State Drive	718174-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Boot 3yr Wty Solid State Drive	734364-B21
<b>6G SATA Value Endurance Quick Release SFF (2.5-inch) Enterprise Value Solid State Drives</b>	
<b>NOTE:</b> These drives are supported by the SL230s Gen8 and SL250s Gen8 only.	
HP 800GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3y Wty Solid State Drive	718192-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive	739902-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive	718186-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive also supports the Moonshot System.	739892-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive <b>NOTE:</b> This drive also supports the Moonshot System.	718180-B21
<b>6G SATA ME Quick Release SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
<b>NOTE:</b> These drives are supported by the SL230s Gen8 and SL250s Gen8 only.	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive	730057-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive	730055-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive	730053-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive	730051-B21
<b>3G SATA MLC Quick Release SFF (2.5-inch) Enterprise Mainstream Solid State Drives</b>	
<b>NOTE:</b> These drives support G6, G7, and Gen8 servers only.	
HP 400GB 3G SATA MLC SFF (2.5-inch) Quick-release Enterprise Mainstream 3yr Wty Solid State Drive	636625-B21

### Standard Features

#### What is SSD?

An enduring data storage device using semiconductor technology to store and access data which is non-volatile without the aid of an auxiliary power source.

#### SSD Quality

Today's distributed enterprise is seeing larger, more complex applications, an increase of mission-critical data moving to the server, increasing demand for transaction processing and critical server consolidation. In this environment, storage has become a critical component of the information system, significantly defining both the systems reliability and performance. This is why HP drives undergo an intense qualification process that eliminates firmware and O/S incompatibilities. All drive firmware is specific to our drives and is designed to maximize both functionality and compatibility. All of our drives are proven to be reliable and tuned for optimum performance in the HP equipment for which they were designed.

#### Integration

Many issues customers have with third party drives are "simple" integration issues. When buying from another supplier, there is no guarantee that a drive has been correctly set for proper operation with ProLiant servers and storage systems. These incompatibilities can create problems in configuration, can rob your system of performance, or at their worst, can cause you to lose data. HP drives are specifically designed and tested for flawless operation in your HP equipment. The integration of solid state drives in HP systems means that associated components are right for your ProLiant server.

#### Support Matrix

Please see the following URL for the latest list of supported servers and enclosures:

<http://h18004.www1.hp.com/products/servers/proliantstorage/drives-enclosures/docs/index.html>

**NOTE:** Non-hot plug devices are 15mm Z-height which restricts them to those servers that can accept a 15mm device

#### Maximum Usage Limitations

NAND Flash devices use semiconductor technology that has a finite number of data that can be written to the device, defined as the Maximum Usage Limit, commonly called write endurance.

Write Endurance - Write endurance is measured while running 100% random 4KiB writes across the entire SSD

Drive Writes Per Day - Workload environment is based on 100% random 4KiB writes for five (5) years

Drive	Write endurance specifications for 6G SATA Value Endurance (VE) SSDs	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years (using JESD219 workload)
<b>VE Enterprise Boot 80GB</b>	40TB	0.3
<b>VE Enterprise Boot 120GB</b>	75TB	0.3
<b>VE Enterprise Value 240GB</b>	145TB	0.3
<b>VE Enterprise Value 480GB</b>	290TB	0.3
<b>VE Enterprise Value 800GB</b>	490TB	0.3

### Standard Features

Drive	Write endurance specifications for 12G SAS Value Endurance (VE) SSDs	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years (using JESD219 workload)
12G SAS VE Enterprise Value 800GB	1800TB	1
12G SAS VE Enterprise Value 1600GB	3700TB	1
Drive	Write endurance specifications for 12G SAS High Endurance (HE) SSDs	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years (using JESD219 workload)
12G SAS HE Enterprise Performance 200GB	9.3PB	25
12G SAS HE Enterprise Performance 400GB	19.1PB	25
12G SAS HE Enterprise Performance 800GB	38.3PB	25
Drive	Write endurance specifications for 12G SAS Mainstream Endurance (ME) SSDs	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years (using JESD219 workload)
12G SAS ME Enterprise Mainstream 200GB	4.1PB	10
12G SAS ME Enterprise Mainstream 400GB	8.6PB	10
12G SAS ME Enterprise Mainstream 800GB	15.6PB	10
Drive	Write endurance specifications for 6G SATA Mainstream Endurance (ME) SSDs	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years (using JESD219 workload)
ME Enterprise Mainstream 100GB	1.8PB	10
ME Enterprise Mainstream 200GB	3.6PB	10
ME Enterprise Mainstream 400GB	7.2PB	10
ME Enterprise Mainstream 800GB	14.6PB	10
Drive	Write endurance specifications for 6G SAS SSD Devices	
	Lifetime Writes	Drive Writes Per Day for Five (5) Years
ME Enterprise Mainstream 200GB	Up to 1.5PB	4.4



### Standard Features

<b>ME Enterprise Mainstream 400GB</b>	Up to 3.3PB	4.4
<b>ME Enterprise Mainstream 800GB</b>	Up to 6.5PB	4.4
<b>200GB MLC</b>	Up to 550TB	1.5
<b>400GB MLC</b>	Up to 1PB	1.5
<b>800GB MLC</b>	Up to 2PB	1.5
<b>200GB SLC</b>	Up to 4.5PB	14
<b>400GB SLC</b>	Up to 8.9PB	14
<b>Drive</b>	<b>Write endurance specifications for 3G SATA SSD Devices</b>	
	<b>Lifetime Writes</b>	<b>Drive Writes Per Day for Five (5) Years</b>
<b>100GB MLC</b>	Up to 981TB	5.5
<b>200GB MLC</b>	Up to 1.9PB	5.5
<b>400GB MLC</b>	Up to 3.9PB	5.5

HP Solid State Drives are equipped with tools that can report the amount of lifetime remaining. Introducing HP SMARTSSD Wear Gauge™. In order to take advantage of SMARTSSD Wear Gauge™, Smart Array Firmware version 5.0 or greater is required and HP Array Configuration Utility (ACU) or HP Diagnostic Utility (ADU) must be running.

SNMP Storage Agents for both Microsoft® Windows® and Linux provide status and condition updates through traps, OS event logs and the HP System Management Homepage (<http://h18013.www1.hp.com/products/servers/management/agents/index.html>).

The HP SMARTSSD Wear Gauge™ requires a controller listed below (for pre-Gen8 servers) or a Gen8 Smart Array controller for HP ProLiant Gen8 servers.

- HP Smart Array P212 Controller
- HP Smart Array P410 Controller
- HP Smart Array P411 Controller
- HP Smart Array P711m Controller
- HP Smart Array P712m Controller
- HP Smart Array P812 Controller

**NOTE:** Subject to maximum usage/maximum supported lifetime limitations. Maximum Supported Lifetime is the period in years set to equal the warranty for the device. Maximum usage limit is the maximum amount of data that can be written to the device before reaching the device's write endurance limit.

HP Direct Connect to the HP Smart Array B110i SATA RAID Controller is not supported in this tool.

### Data Retention

Data Retention is the period of time for retaining the data in the NAND once the maximum rated endurance level has occurred. These SSD's are rated for 3 months if no power is applied once the SSD has reached maximum rated write endurance.



### Standard Features

**Warranty**

3/0/0 warranty; Customer Self Repair (CSR) subject to maximum usage limitations. Maximum usage limit: This is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for warranty coverage.

### Service and Support

#### Service and Support

##### **HP Technology Services for ProLiant Servers**

Capitalizing on HP ProLiant server capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know HP infrastructure hardware and software best - the experienced professionals at HP Services.

##### **Protect your business beyond warranty with HP Care Pack Services**

HP Care Pack services offer complete care and support expertise with committed response choices designed to meet your IT and business needs.

HP Foundation Care services offer scalable reactive support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for your IT and business needs. HP Proactive Care delivers high levels of system availability through proactive service management and advanced technical response.

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### **Recommended HP Care Pack Services for your HP product**

#### **Optimized Care**

##### **3-Year HP 6 hour Call to Repair Response, Proactive Care**

Combined reactive and proactive support for hardware and software helping optimize your systems and delivering high levels of availability through proactive service management and advanced technical response. Hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request. A Technical Account Manager, as your single point of contact, will own your call or issue end to end until resolved.

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855EEE.pdf>

##### **HP Installation of ProLiant Add On Options Service**

This easy-to-buy, easy-to-use HP Care Pack service helps ensure that your new HP hardware or software is installed smoothly, efficiently, and with minimal disruption of your IT and business.

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#### **Standard Care**

##### **3-Year HP 24x7 4 hour response, Proactive Care Service**

This service gives you combined reactive and proactive support including rapid access to our Advanced Solution Center to manage and prevent problems and a Technical Support Specialist with a broad level of technical knowledge that will engage with additional technical expertise as needed from HP's vast global resources.

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855EEE.pdf>

##### **HP Installation of ProLiant Add On Options Service**

This easy-to-buy, easy-to-use HP Care Pack service helps ensure that your new HP hardware or software is installed smoothly, efficiently, and with minimal disruption of your IT and business.

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### Service and Support

#### Related Services

##### **Proactive Care Personalized Support - Environmental Option**

The Personalized Support option provides an assigned Account Support Manager who can bring best practices from across the industry plus extra technical skills to your IT team. This option is only available as an add-on to HP Proactive Care Support.

##### **HP Proactive Select Service**

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN.pdf>

**NOTE:** Additional HP Care Pack services can be found at: <http://hp.com/go/cpc>

#### **Insight Remote Support/Insight Online**

HP Insight Remote Support provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. This comes at no additional cost with your HP solution. Learn more about Insight Remote Support <http://www.hp.com/go/insightremotesupport> and Insight Online <http://h18013.www1.hp.com/products/servers/management/insight-online/index.html>

**NOTE:** Insight Remote Support is a prerequisite for HP Proactive Care.

#### **HP Support Center**

Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more <http://www.hp.com/go/hpsc>

HP's Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HP Insight Remote Support and HP Support Center are available at no additional cost with a HP warranty, HP Care Pack or HP contractual support agreement.

**NOTE:** HP Support Center Mobile App above is subject to local availability.

#### **Parts and materials**

HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

### Service and Support

#### **Warranty / Service Coverage**

For ProLiant servers and storage systems, the service on the main product covers HP-branded hardware options not designated by HP as requiring separate coverage, that are qualified for the server, purchased at the same time or afterward and internal to the enclosure. These items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been reached.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have reached maximum supported lifetime and/or the maximum usage limits as set forth in the manufacturer's operating manual, the product QuickSpecs, or the technical data sheet are not eligible for the defective media retention service feature option.

**Subject to:** Maximum supported lifetime: This is a period in years set to equal the warranty for the specific drive. After this period no further service coverage will be available for the drive. Maximum usage limit: This is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for services coverage.

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#### **For more information**

To learn more on services for HP ESSN Options, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: <http://www.hp.com/services/proliant> or [www.hp.com/services/bladessystem](http://www.hp.com/services/bladessystem)

### Technical Specifications

#### HP Solid State Drives

**Application Information** Solid State Drives offer high performance, low latency, low power solutions that fit seamlessly into the HP server infrastructure using HP's universal hot plug drive carrier

**NOTE:** Any drive with SC in the product description is for Gen8 hot plug server bays servers only. They cannot be used in any other server generation.

#### HP SSD SAS Drives

##### 12G SAS Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16. Sequential Performance is based on maximum device throughput.

<b>HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>762263-B21</b>	<b>Capacity</b>	1600GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	96,000 IOP/s
			Random Writes	25,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	385 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>762261-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	91,000 IOP/s
			Random Writes	28,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	390 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### 12G SAS Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16. Sequential Performance is based on maximum device throughput.

<b>HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive</b>	<b>762272-B21</b>	<b>Capacity</b>	1600GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	96,000 IOP/s
			Random Writes	25,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	385 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive</b>	<b>762270-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	91,000 IOP/s
			Random Writes	28,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	390 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

#### 12G SAS High Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 800GB 12G SAS High Endurance SFF 2.5-in SC</b>	<b>741159-B21</b>	<b>Capacity</b>	800GB
		<b>Height</b>	15mm

### Technical Specifications

#### Enterprise Performance 3yr Wty Solid State Drive

<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	87,000 IOP/s
	Random Writes	73,000 IOP/s
	Sequential Reads	1,000 MiB/s
	Sequential Writes	560 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

#### HP 800GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive

741157-B21

<b>Capacity</b>	800GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	87,000 IOP/s
	Random Writes	73,000 IOP/s
	Sequential Reads	1,000 MiB/s
	Sequential Writes	560 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	



### Technical Specifications

**HP 400GB 12G SAS High  
Endurance SFF 2.5-in SC  
Enterprise Performance  
3yr Wty Solid State Drive**

**741155-B21**

<b>Capacity</b>	400GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	86,000 IOP/s
	Random Writes	73,000 IOP/s
	Sequential Reads	960 MiB/s
	Sequential Writes	585 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

**HP 400GB 12G SAS High  
Endurance SFF 2.5-in  
Enterprise Performance  
3yr Wty Solid State Drive**

**741153-B21**

<b>Capacity</b>	400GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SAS	
<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	86,000 IOP/s
	Random Writes	73,000 IOP/s
	Sequential Reads	960 MiB/s
	Sequential Writes	585 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

**HP 200GB 12G SAS High  
Endurance SFF 2.5-in SC  
Enterprise Performance  
3yr Wty Solid State Drive**

**741151-B21**

Capacity	200GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SAS	
Transfer Rate	12Gbs	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	84,000 IOP/s
	Random Writes	66,000 IOP/s
	Sequential Reads	960 MiB/s
	Sequential Writes	520 MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

**HP 200GB 12G SAS High  
Endurance SFF 2.5-in  
Enterprise Performance  
3yr Wty Solid State Drive**

**741148-B21**

Capacity	200GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SATA	
Transfer Rate	12Gbs	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	84,000 IOP/s
	Random Writes	66,000 IOP/s
	Sequential Reads	960 MiB/s
	Sequential Writes	520 MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

### Technical Specifications

#### 12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>741146-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	87,000 IOP/s
			Random Writes	58,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	570 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>741144-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	87,000 IOP/s
			Random Writes	58,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	570 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

<b>HP 400GB 12G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid State Drive</b>	<b>741142-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	86,000 IOP/s
			Random Writes	58,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	625 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 400GB 12G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in Enterprise</b> <b>Mainstream 3yr Wty Solid State Drive</b>	<b>741140-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	86,000 IOP/s
			Random Writes	58,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	625 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

<b>HP 200GB 12G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid State Drive</b>	<b>741138-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	84,000 IOP/s
			Random Writes	42,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	450 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 200GB 12G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in Enterprise</b> <b>Mainstream 3yr Wty Solid State Drive</b>	<b>741136-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	12Gbs	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	84,000 IOP/s
			Random Writes	42,000 IOP/s
			Sequential Reads	1,000 MiB/s
			Sequential Writes	450 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### HP SSD SATA Drives

#### 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives

**NOTE:** The 80GB and 120GB Enterprise Boot SSDs with Endurance Manager enabled are targeted for Boot/Swap applications and may have performance throttled due to write workloads. Write performance shown for 80GB and 120GB Enterprise Boot SSDs is based on no endurance throttling.

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive</b>	<b>717965-B21</b>	<b>Capacity</b>	120GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes	4,700 IOP/s
			Sequential Reads	410 MiB/s
			Sequential Writes	130 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 120GB 6G SATA Value Endurance SFF 2.5-in Enterprise Boot 3yr Wty Solid State Drive</b>	<b>728726-B21</b>	<b>Capacity</b>	120GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes	4,700 IOP/s
			Sequential Reads	410 MiB/s
			Sequential Writes	130 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

**HP 80GB 6G SATA Value  
Endurance SFF 2.5-in SC  
Enterprise Boot 3yr Wty  
Solid State Drive**

**734360-B21**

<b>Capacity</b>	80GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SATA	
<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	59,000 IOP/s
	Random Writes	7,700 IOPS
	Sequential Reads	335MiB/s
	Sequential Writes	100 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

**HP 80GB 6G SATA Value  
Endurance SFF 2.5-in  
Enterprise Boot 3yr Wty  
Solid State Drive**

**734366-B21**

<b>Capacity</b>	80GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SATA	
<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	59,000 IOP/s
	Random Writes	7,700 IOPS
	Sequential Reads	335MiB/s
	Sequential Writes	100 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	



### Technical Specifications

#### 6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives

**NOTE:** The 80GB and 120GB Enterprise Boot SSDs with Endurance Manager enabled are targeted for Boot/Swap applications and may have performance throttled due to write workloads. Write performance shown for 80GB and 120GB Enterprise Boot SSDs is based on no endurance throttling.

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive</b>	<b>718171-B21</b>	<b>Capacity</b>	120GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes	4,700 IOP/s
			Sequential Reads	410 MiB/s
			Sequential Writes	130 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 120GB 6G SATA Value Endurance LFF 3.5-in Enterprise Boot 3yr Wty Solid State Drive</b>	<b>728732-B21</b>	<b>Capacity</b>	120GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes	4,700 IOP/s
			Sequential Reads	410 MiB/s
			Sequential Writes	130 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

**HP 80GB 6G SATA Value  
Endurance LFF 3.5-in SC  
Enterprise Boot 3yr Wty  
Solid State Drive**

**734362-B21**

<b>Capacity</b>	80GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard SFF	
<b>Interface</b>	SATA	
<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	59,000 IOP/s
	Random Writes	7,700 IOPS
	Sequential Reads	335MiB/s
	Sequential Writes	100 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

**HP 80GB 6G SATA Value  
Endurance LFF 3.5-in  
Enterprise Boot 3yr Wty  
Solid State Drive**

**734368-B21**

<b>Capacity</b>	80GB	
<b>Height</b>	15mm	
<b>Length x Width</b>	Standard LFF	
<b>Interface</b>	SATA	
<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
<b>Performance</b>	Rotational Speed	N/A
	Random Reads	59,000 IOP/ s
	Random Writes	7,700 IOPS
	Sequential Reads	335MiB/s
	Sequential Writes	100 MiB/s
<b>Physical Configuration</b>	Logical Blocks	512 bytes
<b>Power</b>	9W	
<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>717973-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	12,000 IOP/s
			Sequential Reads	480MiB/s
			Sequential Writes (Write Cache off)	445 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 800GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive</b>	<b>728743-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	12,000 IOP/s
			Sequential Reads	480 MiB/s
			Sequential Writes (Write Cache off)	445 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21	Capacity	600GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	15,000 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	435 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

HP 600GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	739904-B21	Capacity	600GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	15,000 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	435 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

### Technical Specifications

HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21	Capacity	480GB		
		Height	15mm		
		Length x Width	Standard LFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	10,000 IOP/s	
			Sequential Reads	480MiB/s	
			Sequential Writes (Write Cache off)	400 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

HP 480GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	728739-B21	Capacity	480GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	10,000 IOP/s	
			Sequential Reads	480 MiB/s	
			Sequential Writes (Write Cache off)	400 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

### Technical Specifications

<b>HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>739888-B21</b>	<b>Capacity</b>	300GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	9,200 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	300 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 300GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive</b>	<b>739894-B21</b>	<b>Capacity</b>	300GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	9,200 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	300 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21	Capacity	240GB		
		Height	15mm		
		Length x Width	Standard LFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	8,000 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	250 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

HP 240GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	728735-B21	Capacity	240GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	8,000 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	250 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		



### Technical Specifications

#### 6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>718189-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	12,000 IOP/s
			Sequential Reads	480 MiB/s
			Sequential Writes (Write Cache off)	445 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 800GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive</b>	<b>728745-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	12,000 IOP/s
			Sequential Reads	480 MiB/s
			Sequential Writes (Write Cache off)	445 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

<b>HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive</b>	<b>739900-B21</b>	<b>Capacity</b>	600GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	15,000 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	435 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 600GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive</b>	<b>739906-B21</b>	<b>Capacity</b>	600GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	15,000 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	435 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

**HP 480GB 6G SATA Value  
Endurance LFF 3.5-in SC  
Enterprise Value 3yr Wty  
Solid State Drive**

**718183-B21**

Capacity	480GB	
Height	15mm	
Length x Width	Standard LFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	64,000 IOP/s
	Random Writes (Write Cache Off)	10,000 IOP/s
	Sequential Reads	480 MiB/s
	Sequential Writes (Write Cache off)	400 MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

**HP 480GB 6G SATA Value  
Endurance LFF 3.5-in  
Enterprise Value 3yr Wty  
Solid State Drive**

**728741-B21**

Capacity	480GB	
Height	15mm	
Length x Width	Standard LFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	64,000 IOP/s
	Random Writes (Write Cache Off)	10,000 IOP/s
	Sequential Reads	480 MiB/s
	Sequential Writes (Write Cache off)	400 MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

### Technical Specifications

HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739890-B21	Capacity	300GB		
		Height	15mm		
		Length x Width	Standard LFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	9,200 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	300 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

HP 300GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive	739896-B21	Capacity	300GB		
		Height	15mm		
		Length x Width	Standard LFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	9,200 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	300 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

### Technical Specifications

HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21	Capacity	240GB	
		Height	15mm	
		Length x Width	Standard LFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	6Gbps	
		Performance	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	8,000 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	250 MiB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	9W	
		Operating Temperature	0-60°C	

<b>HP 240GB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive</b>	<b>728737-B21</b>	<b>Capacity</b>	240GB		
		<b>Height</b>	15mm		
		<b>Length x Width</b>	Standard LFF		
		<b>Interface</b>	SATA		
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps		
		<b>Performance</b>	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	8,000 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	250 MiB/s	
		<b>Physical Configuration</b>	Logical Blocks	512 bytes	
		<b>Power</b>	9W		
		<b>Operating Temperature</b>	0-60°C		

### Technical Specifications

#### 6G SATA ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives

<b>HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>691868-B21</b>	<b>Capacity</b>	800GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 61,000 IOP/s Random Writes (Write Cache Off) 35,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 450MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>691866-B21</b>	<b>Capacity</b>	400GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 35,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 450MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

### Technical Specifications

<b>HP 200GB 6G SATA</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>691864-B21</b>	<b>Capacity</b>	200GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 32,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 350MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 100GB 6G SATA</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>691862-B21</b>	<b>Capacity</b>	100GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 19,200 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 185MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C



### Technical Specifications

#### 6G SATA ME Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives

<b>HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>691860-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	35,000 IOP/s
			Sequential Reads	480MiB/s
			Sequential Writes (Write Cache off)	450MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>691856-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	63,000 IOP/s
			Random Writes (Write Cache Off)	35,000 IOP/s
			Sequential Reads	480MiB/s
			Sequential Writes (Write Cache off)	450MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

<b>HP 200GB 6G SATA</b> <b>Mainstream Endurance</b> <b>LFF 3.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>691854-B21</b>	<b>Capacity</b>	200GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard LFF
		<b>Interface</b>	SATA
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 32,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 350MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 100GB 6G SATA</b> <b>Mainstream Endurance</b> <b>LFF 3.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>691852-B21</b>	<b>Capacity</b>	100GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard LFF
		<b>Interface</b>	SATA
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 19,200 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 185MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

### Technical Specifications

#### 6G SATA ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives

<b>HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>730065-B21</b>	<b>Capacity</b>	800GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 61,000 IOP/s Random Writes (Write Cache Off) 35,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 450MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>730063-B21</b>	<b>Capacity</b>	400GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SATA
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 63,000 IOP/s Random Writes (Write Cache Off) 35,000 IOP/s Sequential Reads 480MiB/s Sequential Writes (Write Cache off) 450MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

### Technical Specifications

**HP 200GB 6G SATA  
Mainstream Endurance  
SFF 2.5-in Enterprise  
Mainstream 3yr Wty Solid  
State Drive**

**730061-B21**

Capacity	200GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	63,000 IOP/s
	Random Writes (Write Cache Off)	32,000 IOP/s
	Sequential Reads	480MiB/s
	Sequential Writes (Write Cache off)	350MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

**HP 100GB 6G SATA  
Mainstream Endurance  
SFF 2.5-in Enterprise  
Mainstream 3yr Wty Solid  
State Drive**

**730059-B21**

Capacity	100GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	63,000 IOP/s
	Random Writes (Write Cache Off)	19,200 IOP/s
	Sequential Reads	480MiB/s
	Sequential Writes (Write Cache off)	185MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

### Technical Specifications

#### HP SSD SAS Drives

#### 6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives

<b>HP 800GB 6G SAS</b>	<b>690829-B21</b>	<b>Capacity</b>	800GB
<b>Mainstream Endurance</b>		<b>Height</b>	15mm
<b>SFF 2.5-in SC Enterprise</b>		<b>Length x Width</b>	Standard SFF
<b>Mainstream 3yr Wty Solid State Drive</b>		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 51,700 IOP/s Random Writes (Write Cache Off) 13,000 IOP/s Sequential Reads 422MiB/s Sequential Writes (Write Cache off) 175MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 800GB 6G SAS</b>	<b>690823-B21</b>	<b>Capacity</b>	800GB
<b>Mainstream Endurance</b>		<b>Height</b>	15mm
<b>SFF 2.5-in Enterprise</b>		<b>Length x Width</b>	Standard SFF
<b>Mainstream 3yr Warranty Solid State Drive</b>		<b>Interface</b>	SAS
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps
		<b>Performance</b>	Rotational Speed N/A Random Reads 51,700 IOP/s Random Writes 13,000 IOP/s Sequential Reads 422MiB/s Sequential Writes 175MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

### Technical Specifications

<b>HP 400GB 6G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>690827-B21</b>	<b>Capacity</b>	400GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SAS
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 46,200 IOP/s Random Writes (Write Cache Off) 9,800 IOP/s Sequential Reads 370MiB/s Sequential Writes (Write Cache off) 150MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

<b>HP 400GB 6G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in Enterprise</b> <b>Mainstream 3yr Warranty</b> <b>Solid State Drive</b>	<b>690821-B21</b>	<b>Capacity</b>	400GB
		<b>Height</b>	15mm
		<b>Length x Width</b>	Standard SFF
		<b>Interface</b>	SAS
		<b>Transfer Rate</b>	6Gbps
		<b>Synchronous (Maximum)</b>	
		<b>Performance</b>	Rotational Speed N/A Random Reads 46,200 IOP/s Random Writes 9,800 IOP/s Sequential Reads 370MiB/s Sequential Writes 150MiB/s
		<b>Physical Configuration</b>	Logical Blocks 512 bytes
		<b>Power</b>	9W
		<b>Operating Temperature</b>	0-60°C

### Technical Specifications

<b>HP 200GB 6G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in SC Enterprise</b> <b>Mainstream 3yr Wty Solid</b> <b>State Drive</b>	<b>690825-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6Gbps	
		<b>Synchronous (Maximum)</b>		
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	46,200 IOP/s
			Random Writes (Write Cache Off)	9,800 IOP/s
			Sequential Reads	370MiB/s
			Sequential Writes (Write Cache off)	150MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 200GB 6G SAS</b> <b>Mainstream Endurance</b> <b>SFF 2.5-in Enterprise</b> <b>Mainstream 3yr Warranty</b> <b>Solid State Drive</b>	<b>690819-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate</b>	6Gbps	
		<b>Synchronous (Maximum)</b>		
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	46,200 IOP/s
			Random Writes	9,800 IOP/s
			Sequential Reads	370MiB/s
			Sequential Writes	150MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### 6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives

<b>HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive</b>	<b>653082-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	40,000 IOP/s
			Random Writes	14.5K IOP/s
			Sequential Reads	415MiB/s
			Sequential Writes	180MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive</b>	<b>632494-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	40,000 IOP/s
			Random Writes (Write Cache Off)	14.5K IOP/s
			Sequential Reads	415MiB/s
			Sequential Writes (Write Cache off)	180MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	



### Technical Specifications

<b>HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive</b>	<b>653078-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	40,000 IOP/s
			Random Writes	14.5K IOP/s
			Sequential Reads	415MiB/s
			Sequential Writes	180MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive</b>	<b>632492-B21</b>	<b>Capacity</b>	200GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SAS	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	40,000 IOP/s
			Random Writes (Write Cache Off)	13,000 IOP/s
			Sequential Reads	350MiB/s
			Sequential Writes (Write Cache off)	160MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### HP SSD SATA Quick Release Drives

#### 6G SATA Value Endurance Quick Release (2.5-inch) Enterprise Boot Solid State Drives

**NOTE:** The 80GB and 120GB Enterprise Boot SSDs with Endurance Manager enabled are targeted for Boot/Swap applications and may have performance throttled due to write workloads. Write performance shown for 80GB and 120GB Enterprise Boot SSDs is based on no endurance throttling.

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 120GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Boot 3yr Wty Solid State Drive</b>	<b>718174-B21</b>	<b>Capacity</b>	120GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes	4,700 IOP/s
			Sequential Reads	410 MiB/s
			Sequential Writes	130 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 80GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Boot 3yr Wty Solid State Drive</b>	<b>734364-B21</b>	<b>Capacity</b>	80GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	59,000 IOP/s
			Random Writes	7,700 IOPS
			Sequential Reads	335MiB/s
			Sequential Writes	100 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

#### 6G SATA Value Endurance Quick Release SFF (2.5-inch) Enterprise Value Solid State Drives

**NOTE:** Random Performance is based on a 4KiB transfer size at a queue of 16.

<b>HP 800GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3y Wty Solid State Drive</b>	<b>718192-B21</b>	<b>Capacity</b>	800GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard LFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	12,000 IOP/s
			Sequential Reads	480 MiB/s
			Sequential Writes (Write Cache off)	445 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

<b>HP 600GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive</b>	<b>739902-B21</b>	<b>Capacity</b>	600GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	61,000 IOP/s
			Random Writes (Write Cache Off)	15,000 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	435 MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	9W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

HP 480GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive	718186-B21	Capacity	480GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	64,000 IOP/s	
			Random Writes (Write Cache Off)	10,000 IOP/s	
			Sequential Reads	480 MiB/s	
			Sequential Writes (Write Cache off)	400 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

HP 300GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive	739892-B21	Capacity	300GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	9,200 IOP/s	
			Sequential Reads	475 MiB/s	
			Sequential Writes (Write Cache off)	300 MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

### Technical Specifications

HP 240GB 6G SATA Value Endurance SFF 2.5-in Quick-release Enterprise Value 3yr Wty Solid State Drive	718180-B21	Capacity	240GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	6Gbps	
		Performance	Rotational Speed	N/A
			Random Reads	64,000 IOP/s
			Random Writes (Write Cache Off)	8,000 IOP/s
			Sequential Reads	475 MiB/s
			Sequential Writes (Write Cache off)	250 MiB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	9W	
		Operating Temperature	0-60°C	

### 6G SATA ME Quick Release SFF (2.5-inch) Enterprise Mainstream Solid State Drives

HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive	730057-B21	Capacity	800GB		
		Height	15mm		
		Length x Width	Standard SFF		
		Interface	SATA		
		Transfer Rate Synchronous (Maximum)	6Gbps		
		Performance	Rotational Speed	N/A	
			Random Reads	61,000 IOP/s	
			Random Writes (Write Cache Off)	35,000 IOP/s	
			Sequential Reads	480MiB/s	
			Sequential Writes (Write Cache off)	450MiB/s	
		Physical Configuration	Logical Blocks	512 bytes	
		Power	9W		
		Operating Temperature	0-60°C		

### Technical Specifications

**HP 400GB 6G SATA  
Mainstream Endurance  
SFF 2.5-in QR Enterprise  
Mainstream 3yr Wty Solid  
State Drive**

**730055-B21**

Capacity	400GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	63,000 IOP/s
	Random Writes (Write Cache Off)	35,000 IOP/s
	Sequential Reads	480MiB/s
	Sequential Writes (Write Cache off)	450MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

**HP 200GB 6G SATA  
Mainstream Endurance  
SFF 2.5-in QR Enterprise  
Mainstream 3yr Wty Solid  
State Drive**

**730053-B21**

Capacity	200GB	
Height	15mm	
Length x Width	Standard SFF	
Interface	SATA	
Transfer Rate	6Gbps	
Synchronous (Maximum)		
Performance	Rotational Speed	N/A
	Random Reads	63,000 IOP/s
	Random Writes (Write Cache Off)	32,000 IOP/s
	Sequential Reads	480MiB/s
	Sequential Writes (Write Cache off)	350MiB/s
Physical Configuration	Logical Blocks	512 bytes
Power	9W	
Operating Temperature	0-60°C	

### Technical Specifications

<b>HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in QR Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>730051-B21</b>	<b>Capacity</b>	100GB		
		<b>Height</b>	15mm		
		<b>Length x Width</b>	Standard SFF		
		<b>Interface</b>	SATA		
		<b>Transfer Rate Synchronous (Maximum)</b>	6Gbps		
		<b>Performance</b>	Rotational Speed	N/A	
			Random Reads	63,000 IOP/s	
			Random Writes (Write Cache Off)	19,200 IOP/s	
			Sequential Reads	480MiB/s	
			Sequential Writes (Write Cache off)	185MiB/s	
		<b>Physical Configuration</b>	Logical Blocks	512 bytes	
		<b>Power</b>	9W		
		<b>Operating Temperature</b>	0-60°C		

### 3G SATA MLC Quick Release SFF (2.5-inch) Enterprise Mainstream Solid State Drives

<b>HP 400GB 3G SATA MLC SFF (2.5-inch) Quick Release Enterprise Mainstream 3yr Wty Solid State Drive</b>	<b>636625-B21</b>	<b>Capacity</b>	400GB	
		<b>Height</b>	15mm	
		<b>Length x Width</b>	Standard SFF	
		<b>Interface</b>	SATA	
		<b>Transfer Rate Synchronous (Maximum)</b>	3Gbps	
		<b>Performance</b>	Rotational Speed	N/A
			Random Reads	32,000 IOP/s
			Random Writes	10,000 IOP/s
			Sequential Reads	257MiB/s
			Sequential Writes	235MiB/s
		<b>Physical Configuration</b>	Logical Blocks	512 bytes
		<b>Power</b>	7W	
		<b>Operating Temperature</b>	0-60°C	

### Technical Specifications

**Environment-friendly  
Products and Approach****End-of-life Management  
and Recycling**

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.